

FIG. 1

LEARNING OF THE AMOUNT OF HEAD SKEW
OF SERVO SIGNAL AREA

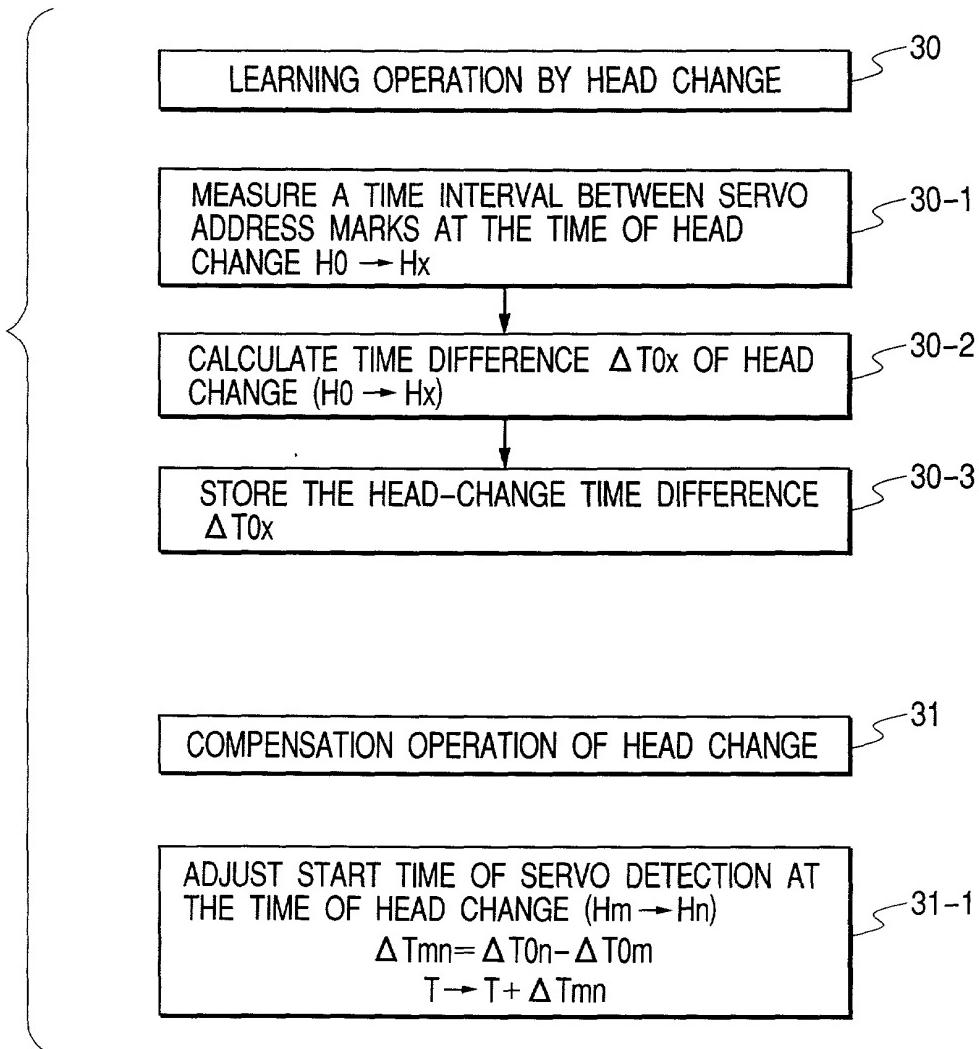


FIG. 2

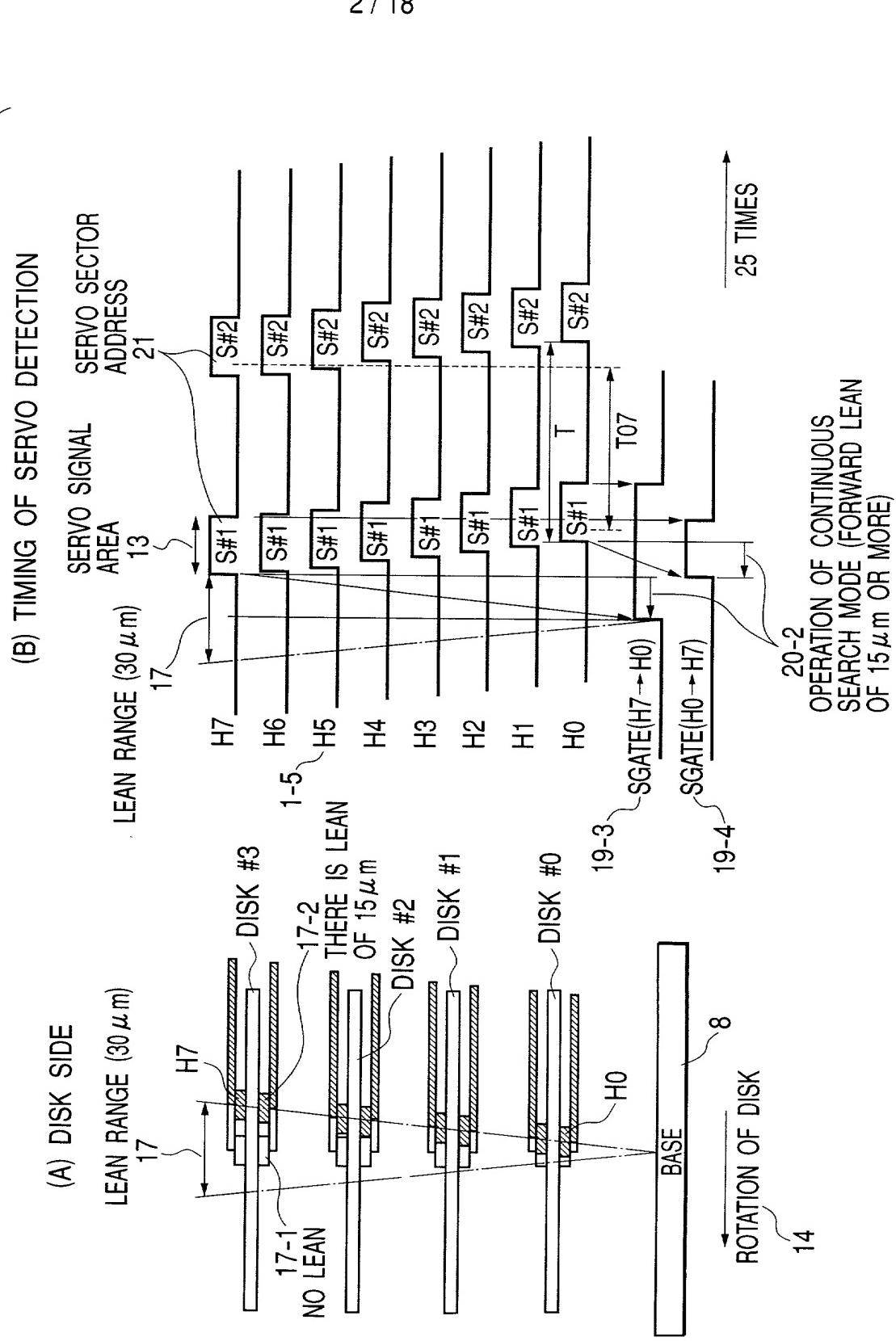


FIG. 3

LINEAR MODEL (THICKNESS OF DISK=INTERVAL
BETWEEN HEADS)

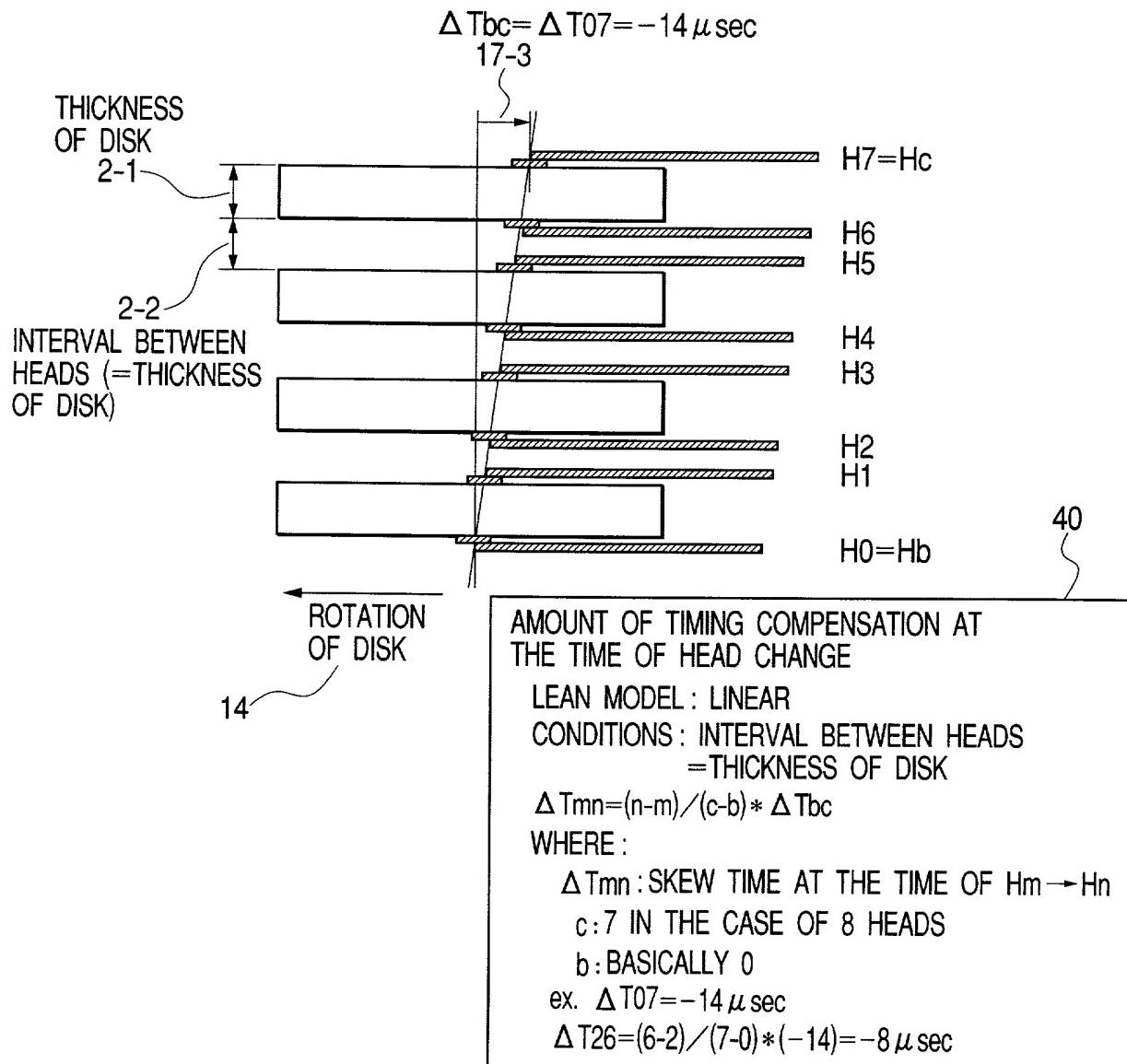


FIG. 4

LINEAR MODEL (THICKNESS OF DISK ≠ INTERVAL BETWEEN HEADS)

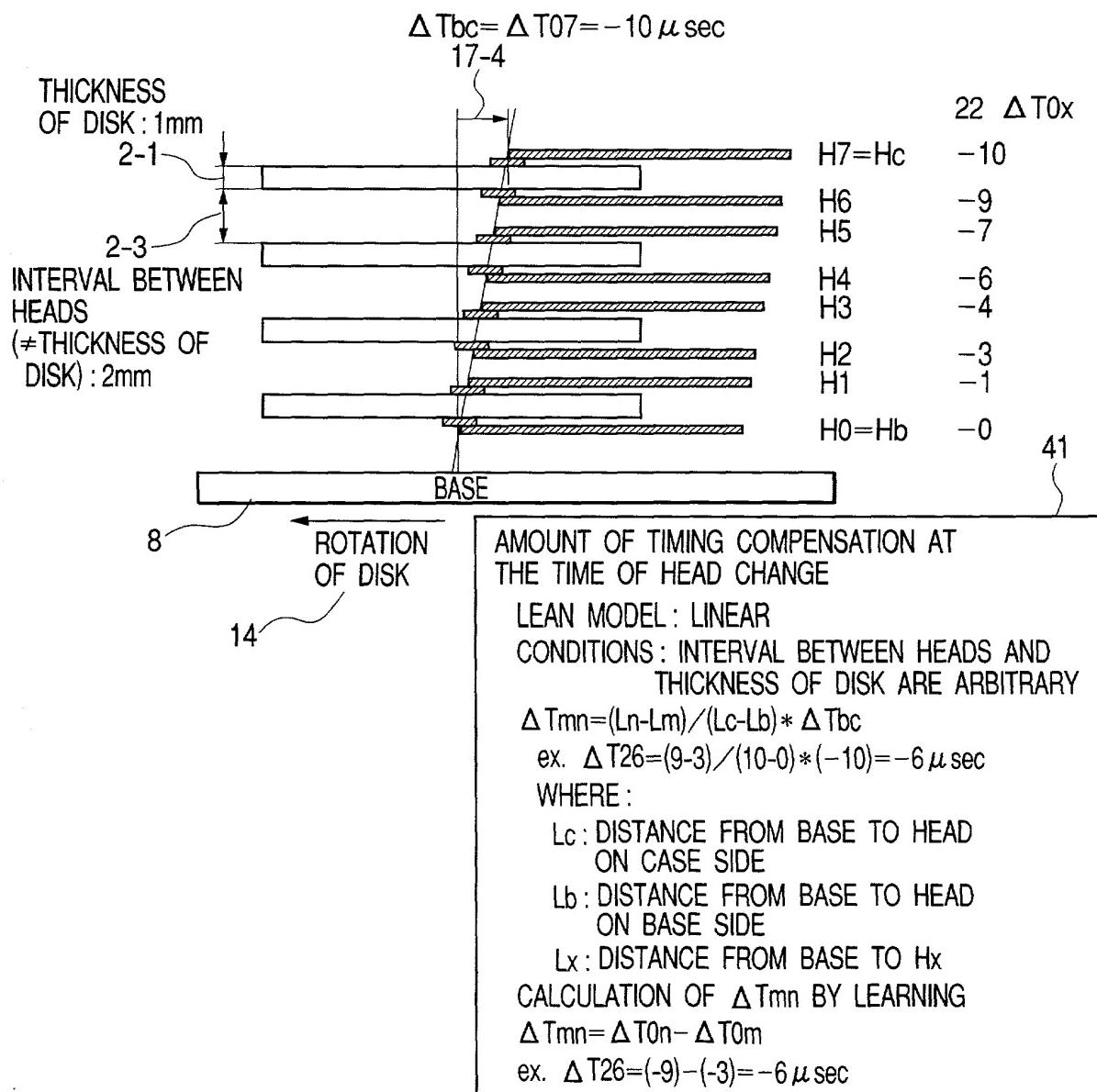
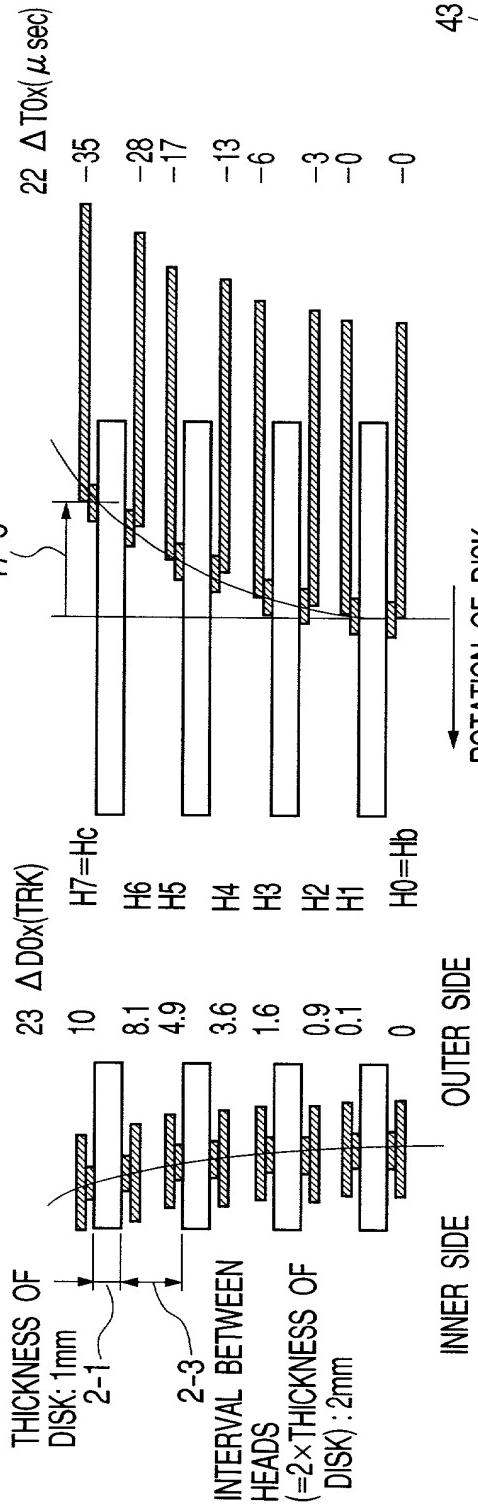


FIG. 5

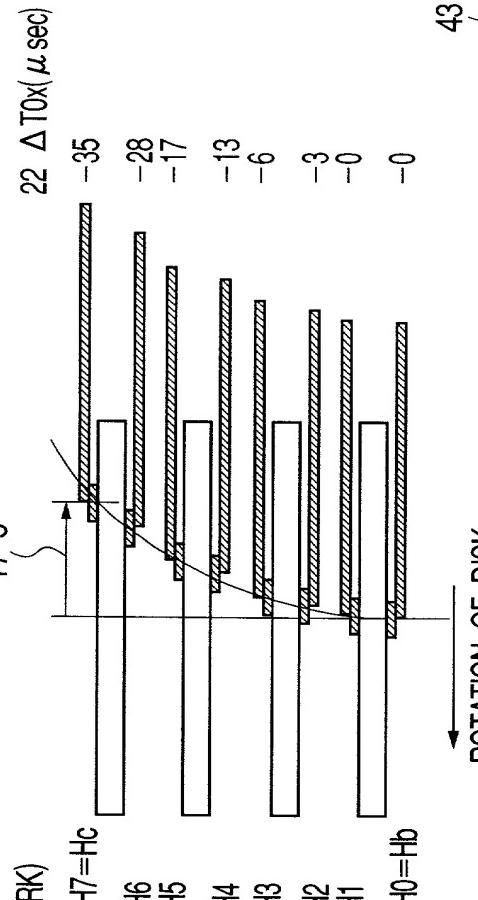
NONLINEAR MODEL (SQUARE CURVE)

(A) TRACK WIDTH DIRECTION



(B) DIRECTION OF DISK ROTATION

$$\Delta T_{bc} = \Delta T_{07} = -35 \mu\text{sec}$$



AMOUNT OF OFFSET COMPENSATION AT THE TIME OF HEAD CHANGE

$$\Delta Dm = \Delta D0n - \Delta D0m$$

$$\text{ex. } \Delta D26 = (8.1) - (0.9) = 7.2 \text{ (TRK)}$$

$$@\text{MODEL : } \Delta D0x = \Delta Dbc / Lbc^2 \times Lbx^2$$

WHERE:

L_{bx} : DISTANCE FROM H_b TO H_x (mm)

c: 7 IN THE CASE OF 8 HEADS

b: BASICALLY 0

14

AMOUNT OF TIMING COMPENSATION AT THE TIME OF HEAD CHANGE

$$\Delta Tm = \Delta T0n - \Delta T0m$$

$$\text{ex. } \Delta T26 = (-28) - (-3) = -25 \text{ (}\mu\text{sec)}$$

$$@\text{MODEL : } \Delta T0x = \Delta Tbc / Lbc^2 \times Lbx^2$$

WHERE:

L_{bx} : DISTANCE FROM H_b TO H_x (mm)

c: 7 IN THE CASE OF 8 HEADS

b: BASICALLY 0

43

22

42

FIG. 6
DISK SLIP+HEAD SKEW

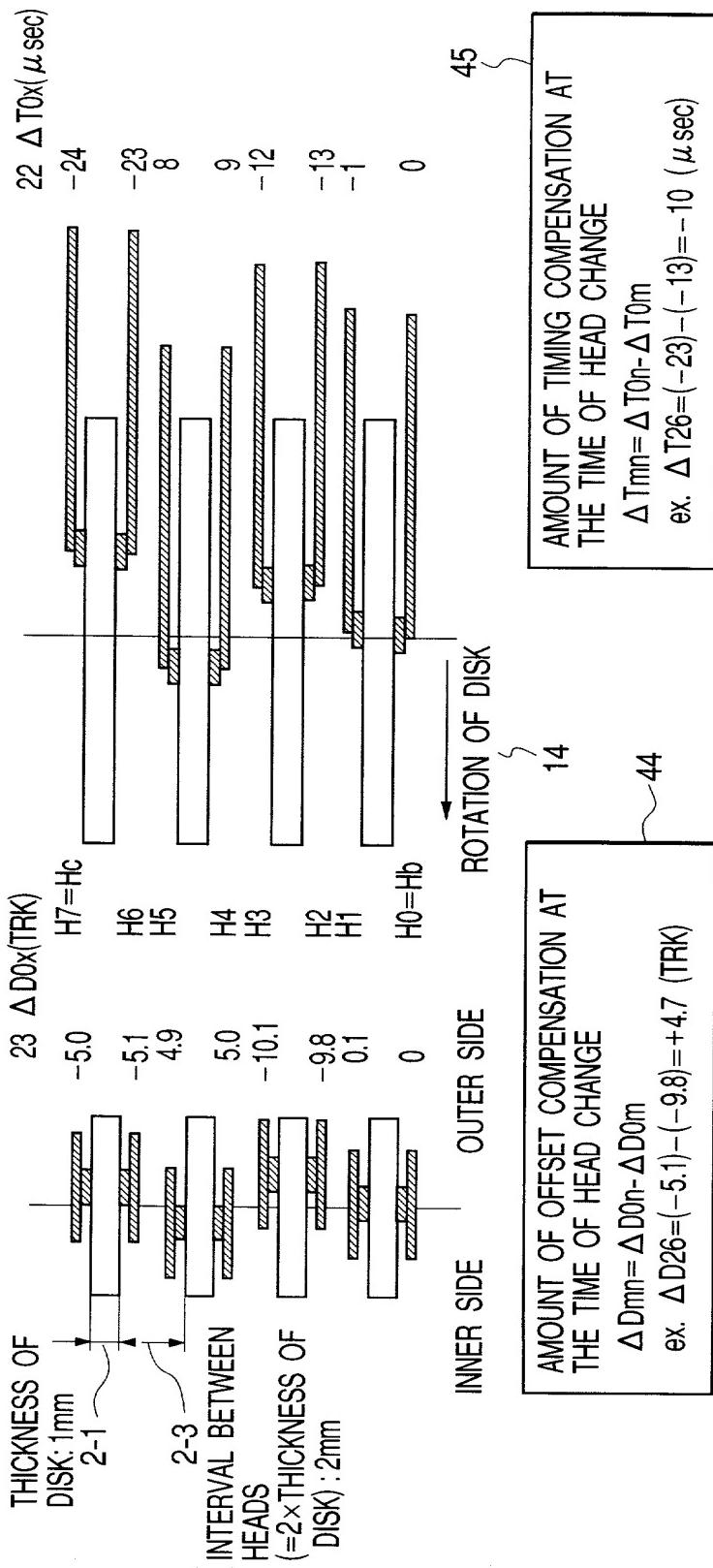


FIG. 7

APPLICATION OF ONE PRE-STW DISK
BY MEDIA PREWRITE STW

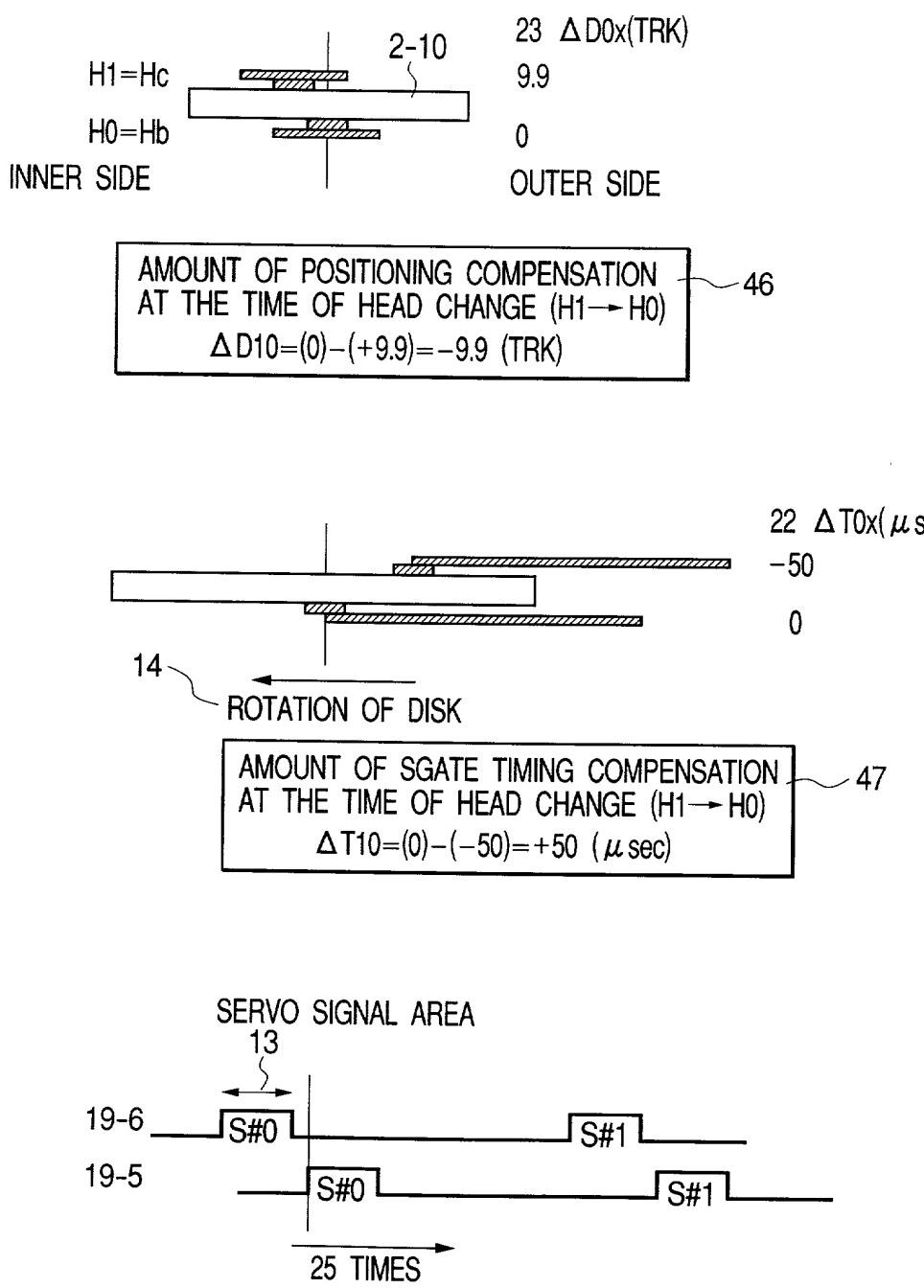


FIG. 8

APPLICATION OF TWO PRE-STW DISKS
BY MEDIA PREWRITE STW

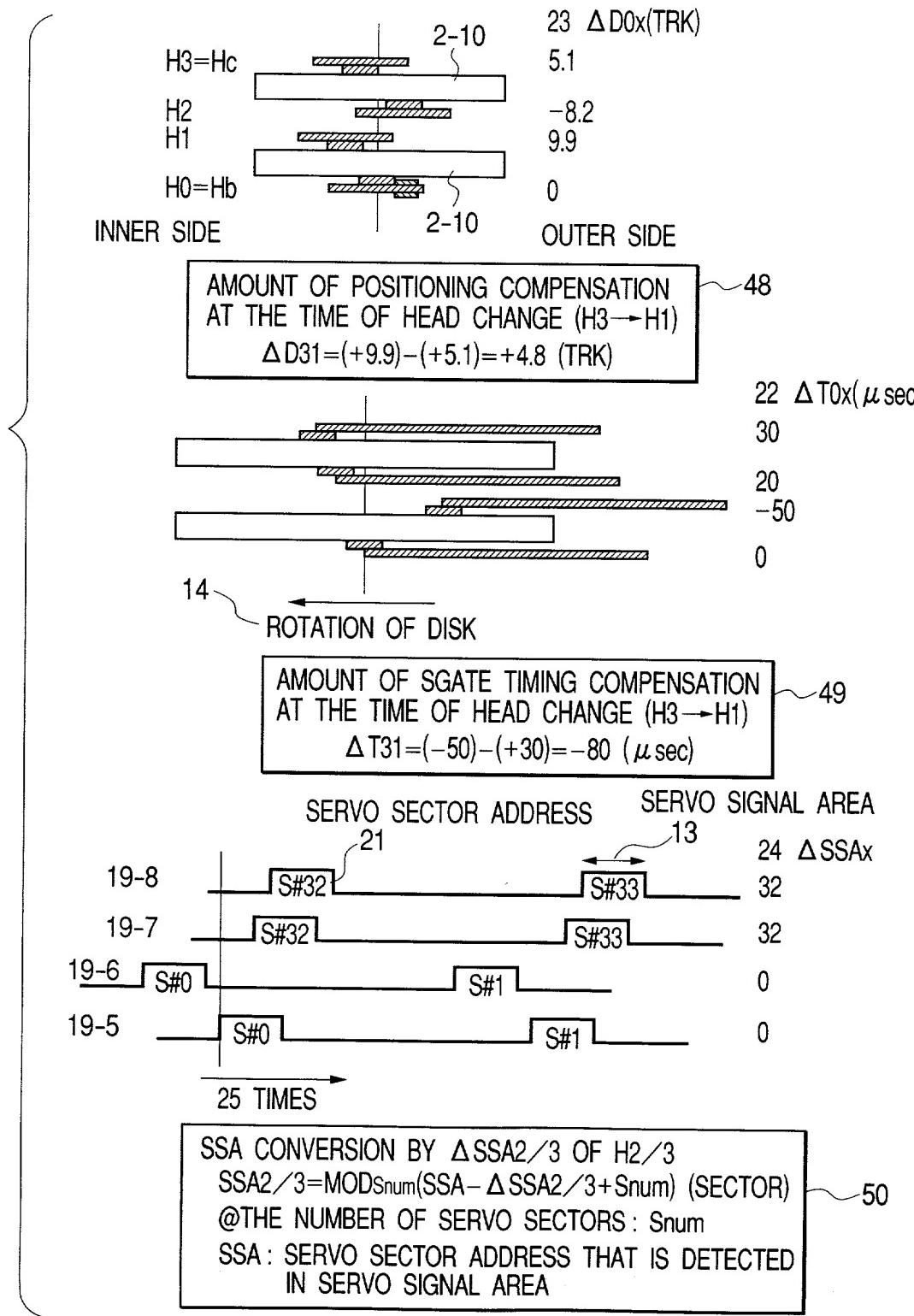


FIG. 9

APPLICATION OF TWO PRE-STW DISKS BY PATTERNED DISK AND MAGNETIC PRINTED MEDIA STW

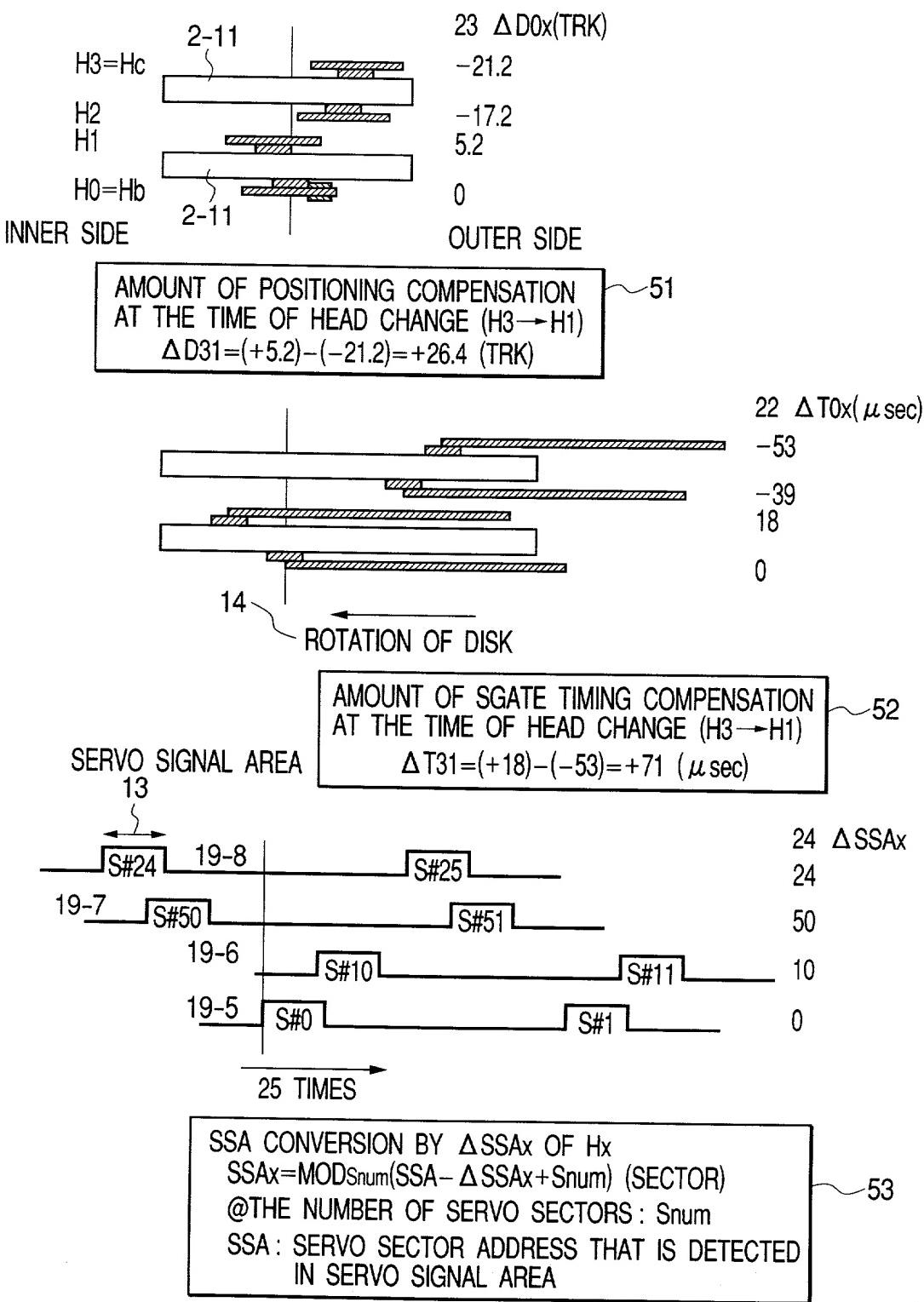


FIG. 10

APPLICATION OF FOUR PRE-STW DISKS BY PATTERNED
DISK AND MAGNETIC PRINTED MEDIA STW

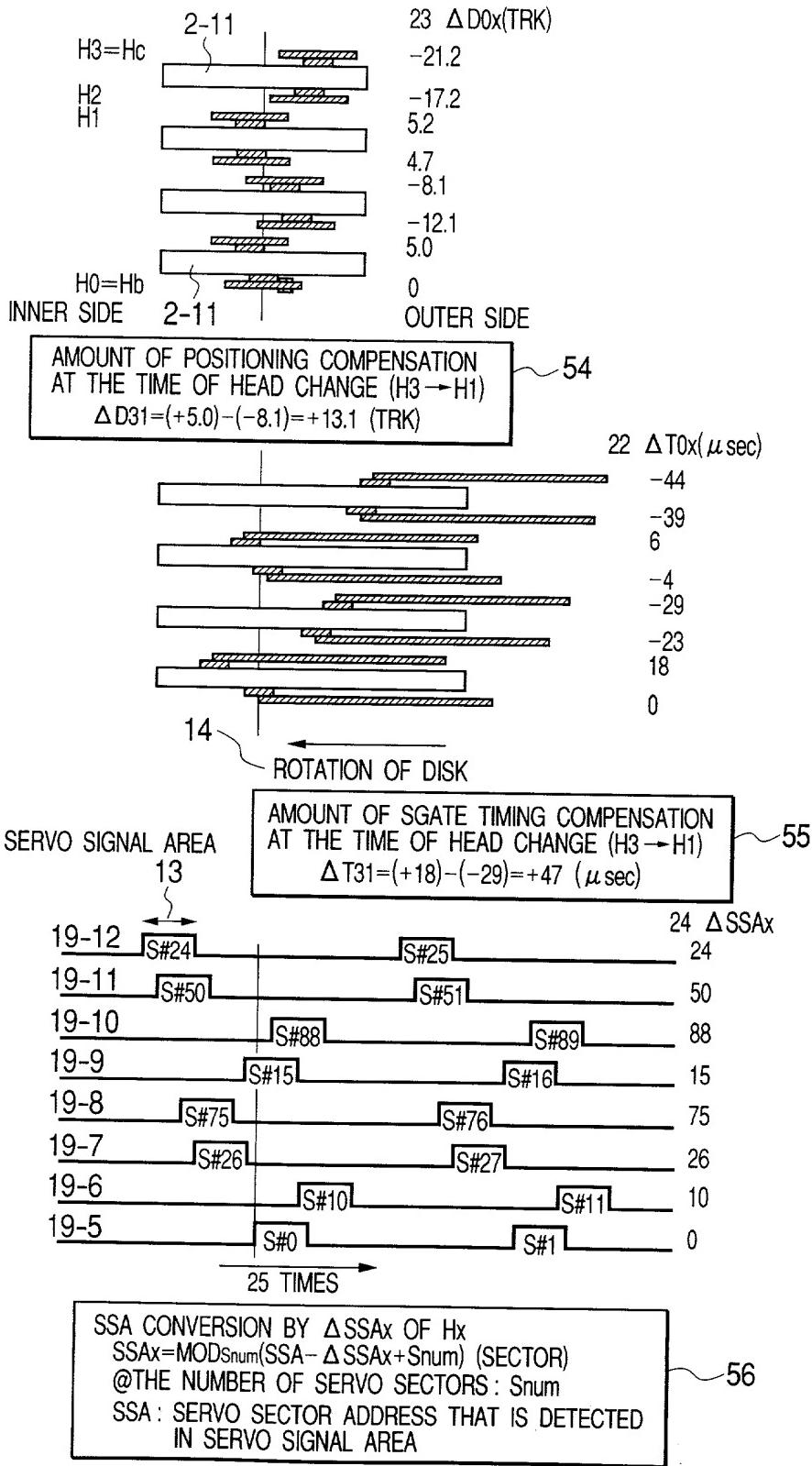


FIG. 11

CONFIGURATION OF HDA

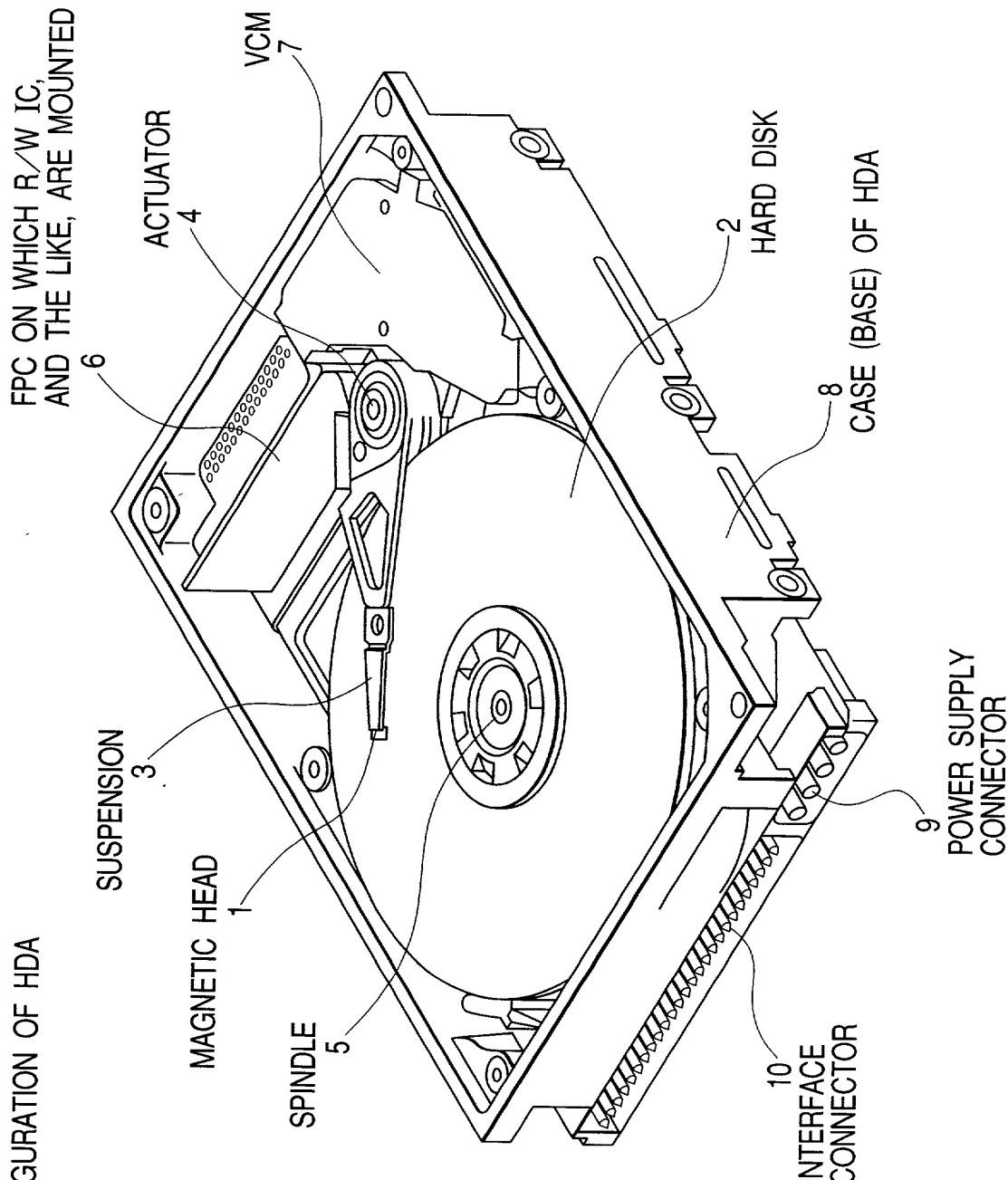


FIG. 12
CONFIGURATION OF HDD

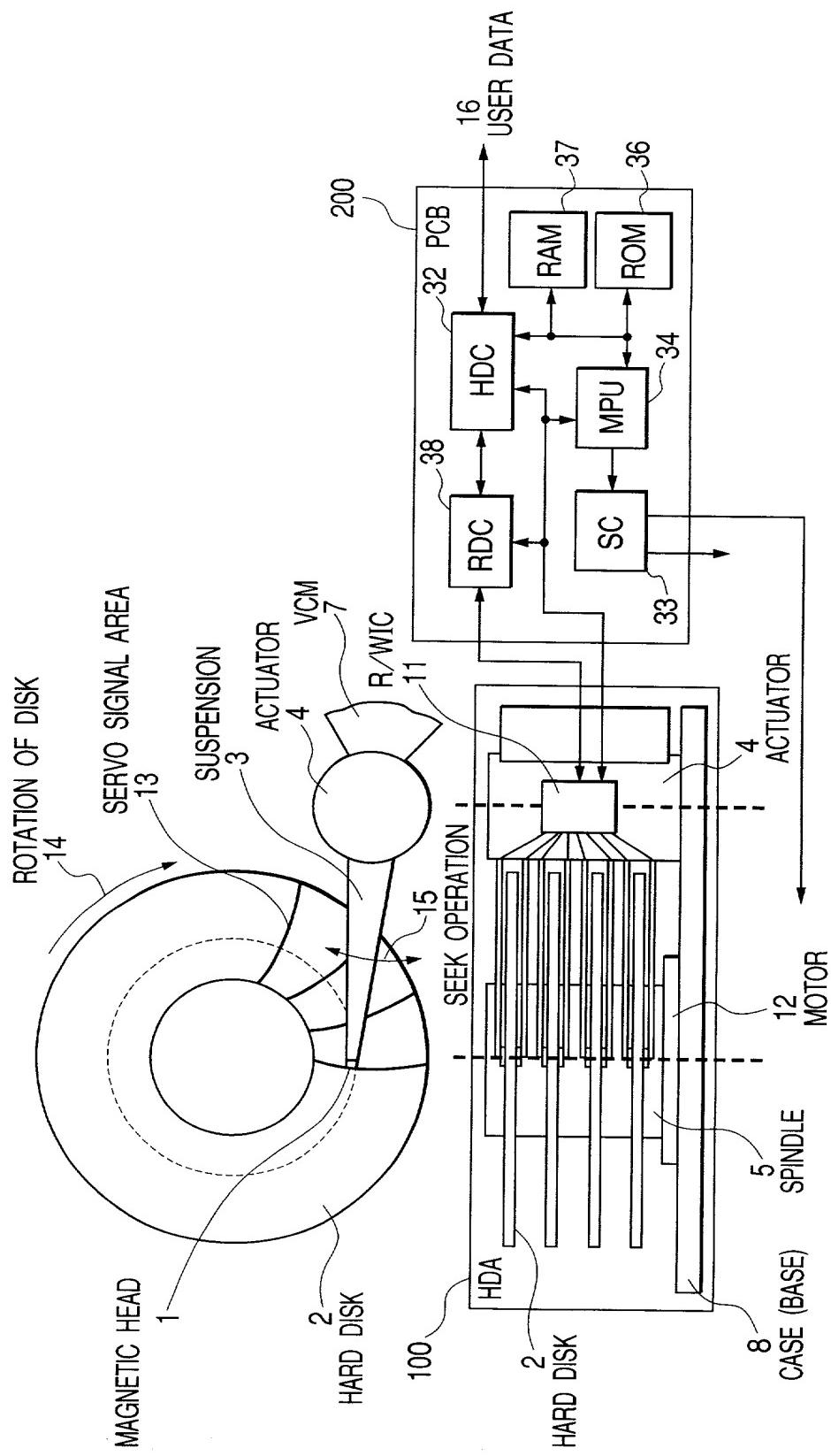


FIG. 13

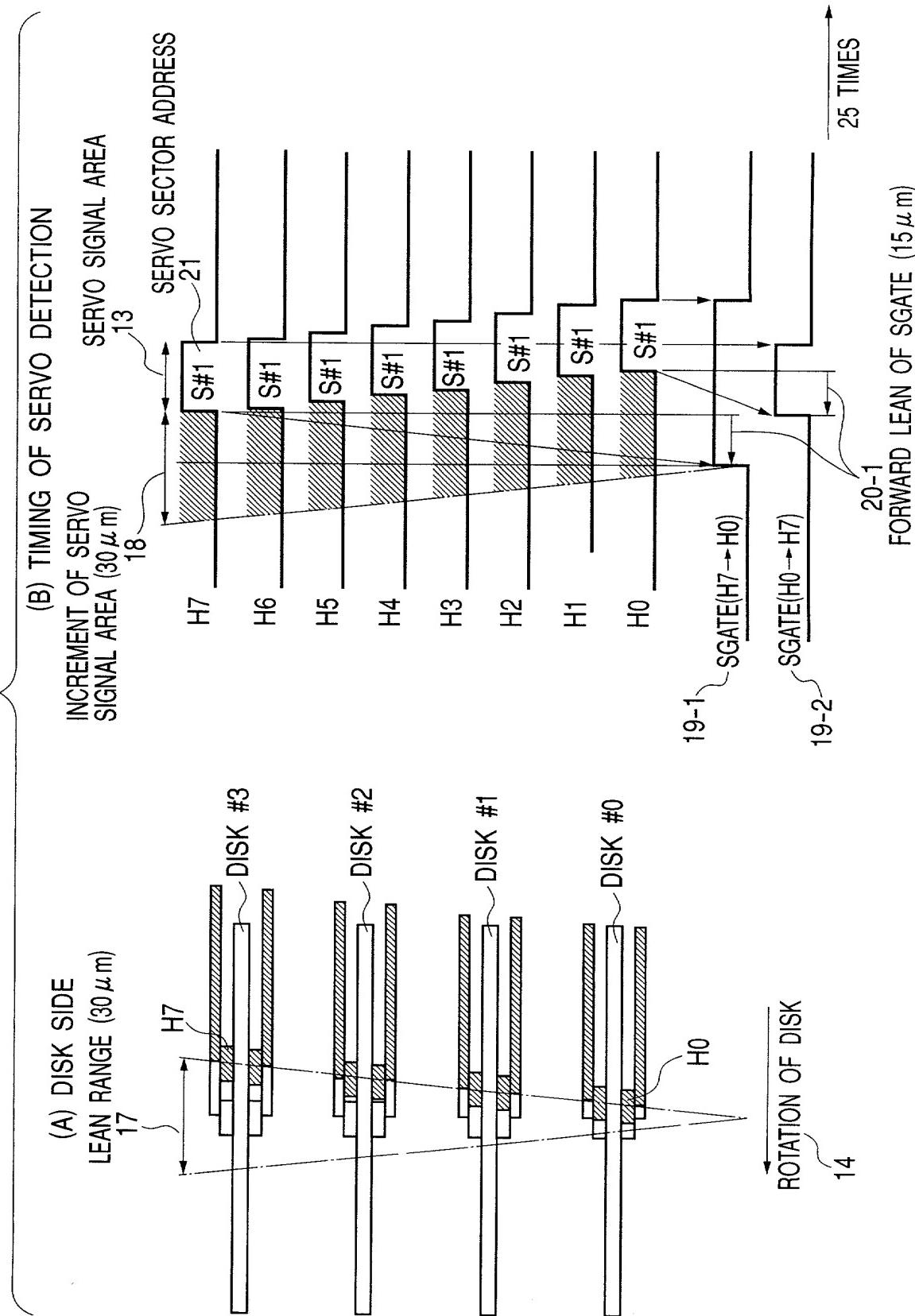


FIG. 14

LEARNING OF THE AMOUNT OF HEAD
SKEW OF SERVO SIGNAL AREA AND
THE AMOUNT OF TRACK OFFSET

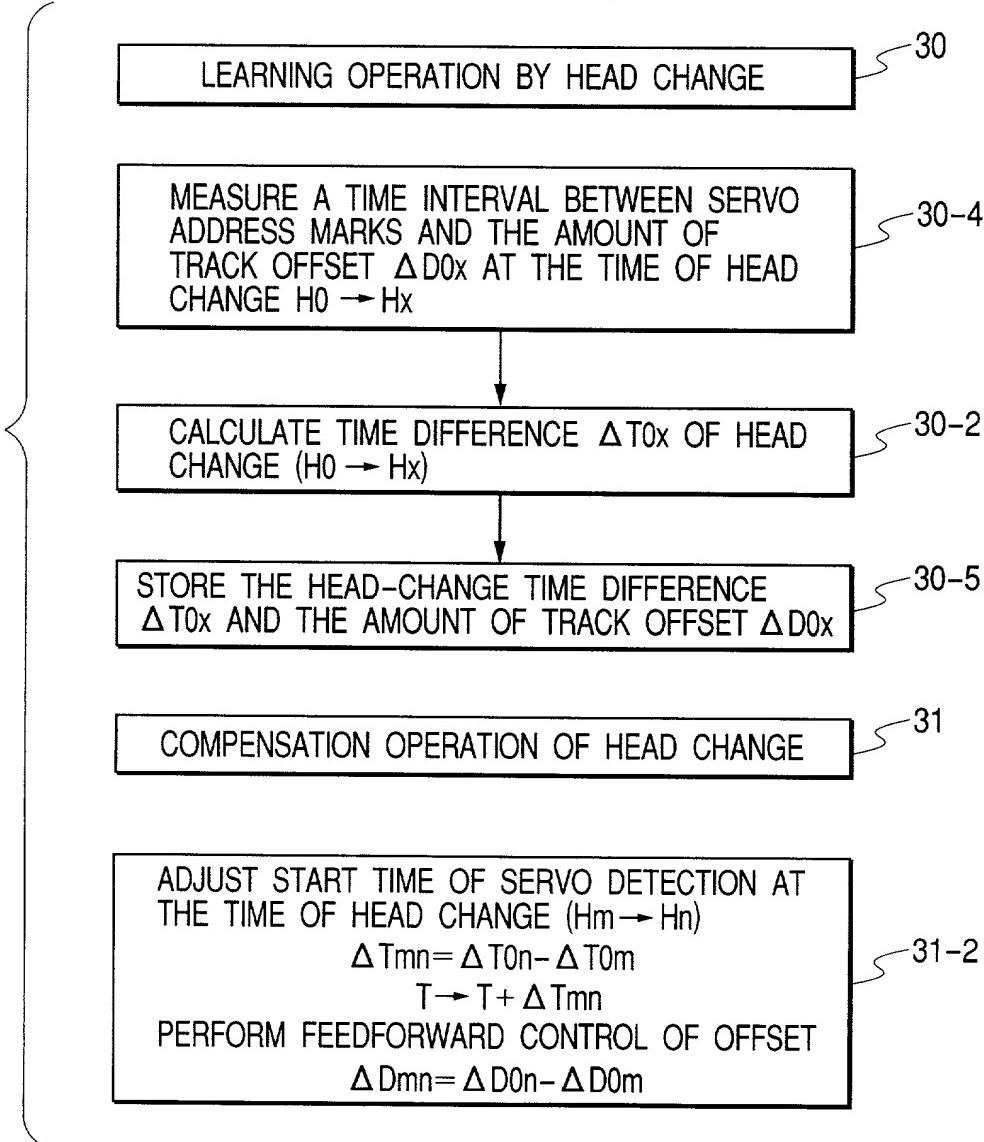


FIG. 15

LEARNING OF THE AMOUNT OF HEAD SKEW
OF SERVO SIGNAL AREA, THE AMOUNT
OF TRACK OFFSET, AND SECTOR SKEW

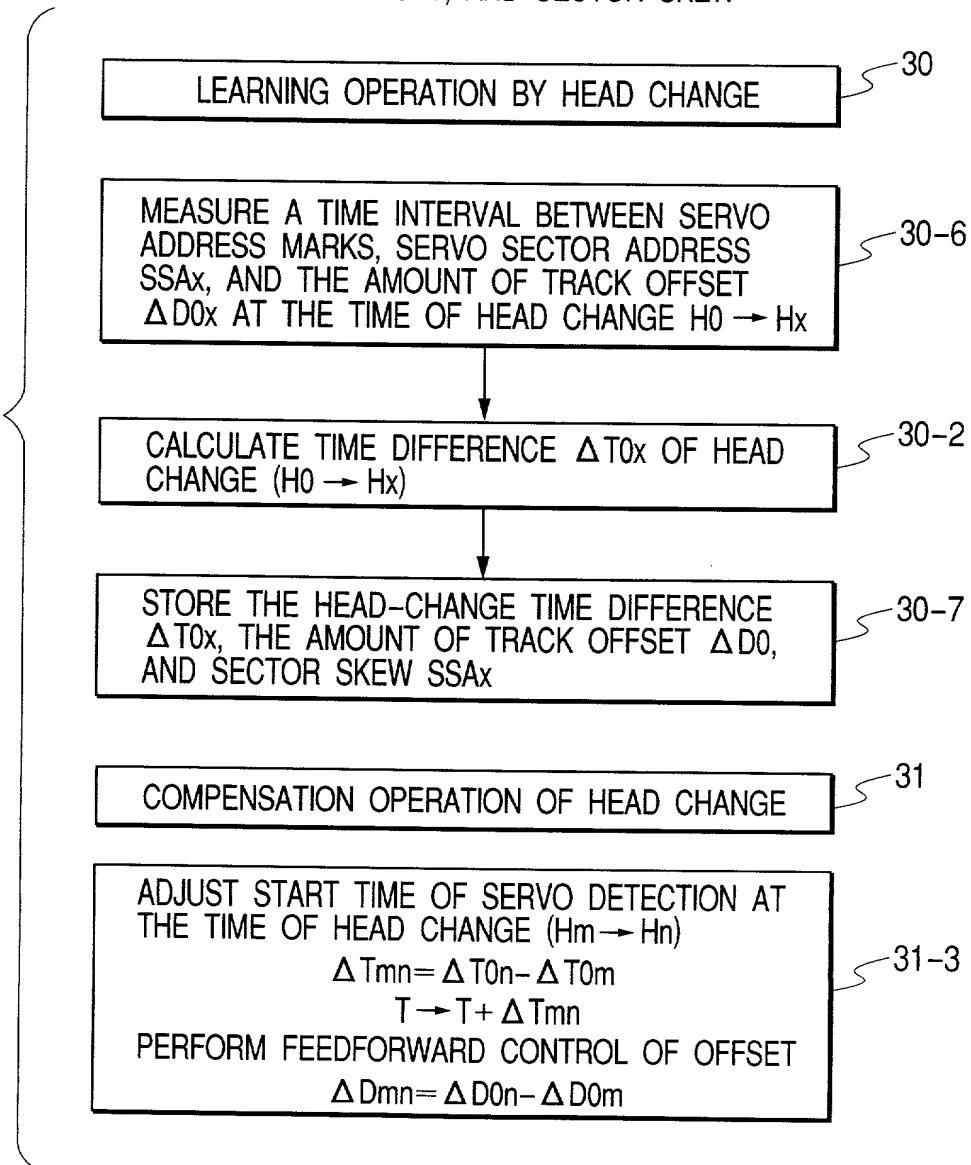


FIG. 16

LEARNING OF THE AMOUNT OF HEAD SKEW OF SERVO SIGNAL AREA, AND SECTOR SKEW

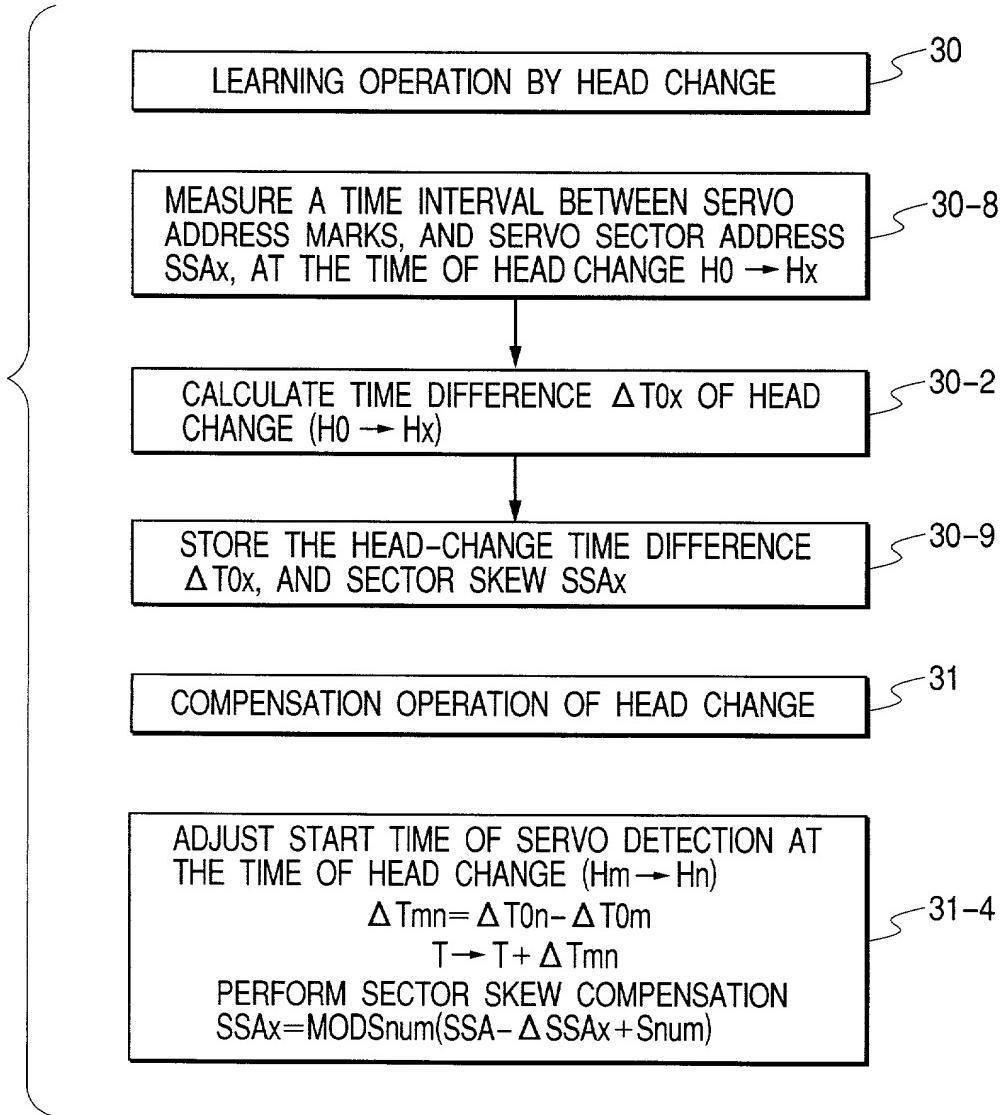


FIG. 17

TWO DISKS BUILT INTO MOBILE COMPUTING DEVICE

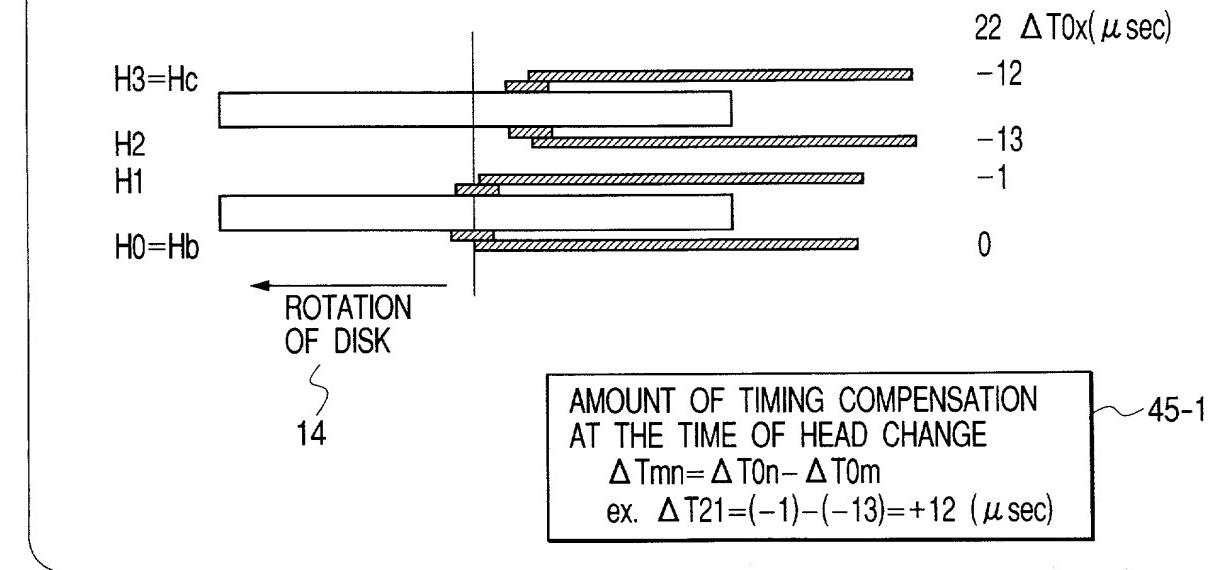
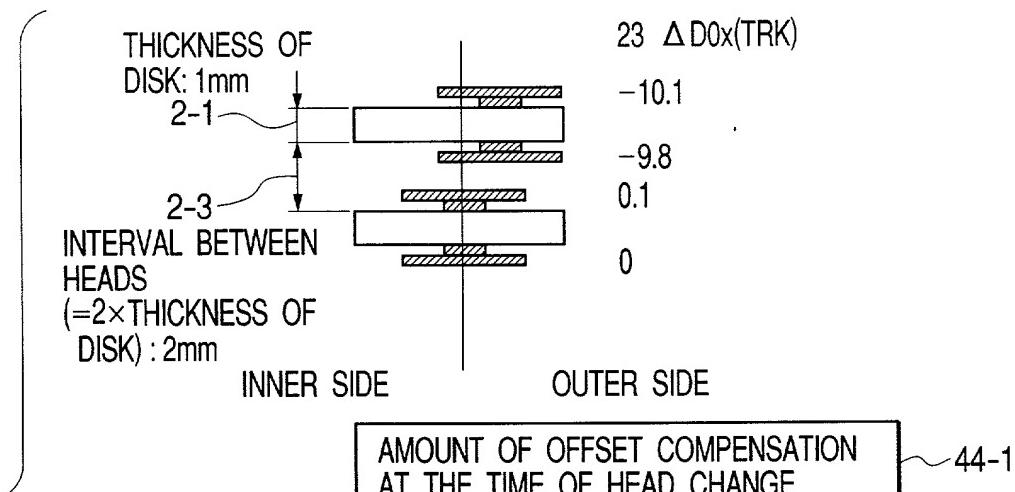


FIG. 18

APPLICATION OF ONE PRE-STW DISK BY PATTERNED
DISK AND MAGNETIC PRINTED MEDIA STW

